

EXHIBIT B

**UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF MASSACHUSETTS**

SINGULAR COMPUTING LLC,

Plaintiff,

v.

GOOGLE LLC,

Defendant.

Civil Action No. 1:19-cv-12551 FDS

Hon. F. Dennis Saylor IV

**RESPONSIVE CONTENTIONS REGARDING
NON-INFRINGEMENT AND INVALIDITY**

U.S. Patent No. 5,442,577 (“Cohen”)	August 15, 1995
U.S. Patent App. Publ. No. 2007/0203967 (“Dockser”)	August 30, 2007
U.S. Patent Appl. Publ. No. 2009/0066164 (“Flynn”)	March 12, 2009
U.S. Patent No. 5,666,071 (“Hawkins”)	September 9, 1997
U.S. Patent No. 5,689,677 (“MacMillan”)	November 18, 1997
U.S. Patent No. 6,311,282 (“Nelson”)	October 30, 2001
U.S. Patent Appl. Pub. No. 2003/0204750 (“Youngs”)	October 30, 2003

Prior Art References	Date
Adaptive Solutions Connected Network of Adaptive Processors (CNAPS) Neurocomputer Chip (“CNAPS”)	1991
Arnold et. al, “Splash 2” <i>Proceedings of the 4th Annual ACM Symposium on Parallel Algorithms and Architectures</i> (“Splash 2”)	June 1992
Aty et al, <i>High-Speed, Area-Efficient FPGA-Based Floating-Point Multiplier</i> (“Aty”)	December 9-11, 2003
Belanović, <i>Library of Parameterized Hardware Modules for Floating-Point Arithmetic with an Example Application</i> (“Belanović”)	May 2002
Belanović and Leeser, <i>Library of Parameterized Floating-Point Modules and Their Use</i> (“Belanović and Leeser”)	2002
Cray T3D System (“Cray T3D”)	1994
Hoefflinger et. al, <i>Digital Logarithmic CMOS Multiplier for Very-High-Speed Signal Processing</i> (“Hoefflinger”)	1991
Intel x86 Microprocessor Architecture, including the 80386 microprocessor and 80387 co-processor and the 80486 microprocessor	1985/1989
Intel i860 Microprocessor Architecture, including the iPSC/860 massively parallel supercomputer system	1990
Lee et al, <i>An FPGA-Based Face Detector Using Neural Network and a Scalable Floating Point Unit</i> , Proceedings of the 5th WSEAS	2006

International Conference on Circuits, Systems, Electronics, Control & Signal Processing at 315-320 (“Lee”)	
Makino, <i>Grape and Project Milkyway</i> , Proceedings of the 6th East Asian Meeting of Astronomy	October 18-22, 2004
Makino et al, <i>GRAPE-6: Massively-Parallel Special-Purpose Computer for Astrophysical Particle Simulations</i> , Astronomical Society of Japan	1993
MANTRA I	1993
Okumura et al, <i>GRAPE-3: Highly Parallelized Special-Purpose Computer for Gravitational Many-body Simulations</i> (“GRAPE-3”)	1992
Okumura et al, <i>Highly Parallelized Special-Purpose Computer, GRAPE-3</i> , Astronomical Society of Japan	1992
Shirazi et al, <i>Quantitative Analysis of Floating Point Arithmetic on FPGA Based Custom Computing Machines</i> (“Shirazi”)	April 1995
SPERT-II	1995
Sudha et al, <i>An Efficient Digital Architecture for Principal Component Neural Network and its FPGA Implementation</i> (“Sudha”)	2007
Tong et al, <i>Reducing Power by Optimizing the Necessary Precision/Range of Floating-Point Arithmetic</i> (“Tong”)	June 2000
SYNAPSE-1	1993
Texas Instruments TMS320C32 DSP	1995
Xilinx Virtex-4 FPGA	2007

B. Anticipation

Google contends that the following prior art anticipates the asserted claims of the patents-in-suit under 35 U.S.C. § 102:

- Belanović / Belanović and Leeser
- GRAPE-3

here, too, Singular's Infringement Contentions appear to render this language at least ambiguous (if not entirely meaningless) by conflating "inputs" with "numerical values." These and potentially other indefiniteness issues may be the subject of claim construction briefing and argument.

Respectfully submitted,

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By: /s/ Matthias Kamber

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